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- 1 [Document analysis: NCL 2.0: integrating new concepts to XML modular languages](#) 
 Heron V. O. Silva, Rogério F. Rodrigues, Luiz Fernando G. Soares, Débora C. Muchaluat Saade
 October 2004 **Proceedings of the 2004 ACM symposium on Document engineering**

Full text available:  [pdf\(243.02 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


This paper presents the main new features of Nested Context Language (NCL) version 2.0. NCL 2.0 is a modular and declarative hypermedia language, whose modules can be combined to other languages, such as SMIL, to provide new facilities. Among the NCL 2.0 new features, we can highlight the support for handling hypermedia relations as first-class entities, through the definition of hypermedia connectors, and the possibility of specifying any semantics for a hypermedia composition, using the con ...

Keywords: NCL, SMIL, XConnector, XTemplate, composition template, framework for parsing and processing XML, hypermedia connector

- 2 [OQL_SERF: an ODMG implementation of the template-based schema evolution framework](#) 
 Kajal T. Claypool, Jing Jin, Elke A. Rundensteiner
 November 1998 **Proceedings of the 1998 conference of the Centre for Advanced Studies on Collaborative research**

Full text available:  [pdf\(333.22 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

With rapid progress in application development and technologies, there is an increasing need to specify and handle complex schema changes of databases. The existing support for schema evolution in current OODB systems is limited to a pre-defined taxonomy of simple schema evolution operations with fixed semantics. We have proposed an extensible framework for schema transformations to address this open problem. The SERF framework succeeds in giving the user the *flexibility* to define the sem ...

- 3 [Toolpack - an experimental software development environment research project](#) 
 Leon J. Osterweil
 September 1982 **Proceedings of the 6th international conference on Software engineering**

Full text available:  [pdf\(869.04 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes a research project aimed at building and studying prototype environments for Mathematical Software. The project is aimed at gaining actual measurements and experiences that should help solidify knowledge about how to build effective environments. Towards this end some speculative ideas about environment file systems and command languages are presented, along with research plans for effectively

evaluating these and other design notions.

4 Data parallelism with high performance C

Vincent Van Dongen, Christophe Bonello, Guang R. Gao

October 1994 **Proceedings of the 1994 conference of the Centre for Advanced Studies on Collaborative research**


Full text available:  [pdf\(180.06 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes a preliminary design of the High-Performance C (HPC) language [2]. HPC, a machine-independent language extension to C, allows the user to write programs for distributed-memory systems using global addresses. HPC includes high-level features for specifying processor arrays and both static and dynamic data distributions across processors and for formulating explicitly loops with independent iterations. The language is based on the data parallel paradigm, which exploits the par ...

5 Interactive ELLPACK: an interactive problem-solving environment for elliptic partial differential equations

Wayne R. Dyksen, Calvin J. Ribbens

June 1987 **ACM Transactions on Mathematical Software (TOMS)**, Volume 13 Issue 2

Full text available:  [pdf\(1.38 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

ELLPACK is a versatile, very high-level language for solving elliptic partial differential equations. Solving elliptic problems with ELLPACK typically involves a process in which one repeatedly computes a solution, analyzes the results, and modifies the solution technique. Although this process is best suited for an interactive environment, ELLPACK itself is batch oriented. With this in mind, we have developed Interactive ELLPACK, an extension of ELLPACK that provides true interactive ellip ...

Keywords: problem-solving environments

6 SERF: ODMG-based generic re-structuring facility

E. A. Rundensteiner, K. Claypool, M. Li, L. Chen, Z. Zhang, C. Natarajan, J. Jin, S. De Lima, S. Weiner

June 1999 **ACM SIGMOD Record , Proceedings of the 1999 ACM SIGMOD international conference on Management of data**, Volume 28 Issue 2

Full text available:  [pdf\(333.42 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The age of information management and with it the advent of increasingly sophisticated technologies have kindled a need in the database community and others to re-structure existing systems and move forward to make use of these new technologies. Legacy application systems are being transformed to newer state-of-the-art systems, information sources are being mapped from one data model to another, a diversity of data sources are being transformed to load, cleanse and consolid ...

7 Technical and art demonstrations session 2: METIS: a flexible database foundation for unified media management

Ross King, Niko Popitsch, Utz Westermann

October 2004 **Proceedings of the 12th annual ACM international conference on Multimedia**

Full text available:  [pdf\(121.27 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Current multimedia database systems largely focus on specific media types and/or application domains. This paper gives a sketch of METIS, a database solution for the unified management of any kind of digital media, characterized by profound customizability for domain or application needs. The system core is based on an expressive data model that can be adapted to any scheme for media management, description, and classification desired, and can accommodate arbitrary query operators, similarity ...

Keywords: multimedia database systems, unified media management

8 Poster: Overview of natural language processing of captions for retrieving multimedia data

Eugene J. Guglielmo, Neil C. Rowe

March 1992 **Proceedings of the third conference in Applied natural language processing**

Full text available:  [pdf\(221.27 KB\)](#)



[Publisher Site](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

This paper briefly describes the current implementation status of an intelligent information retrieval system, MARIE, that employs natural language processing techniques. Descriptive captions are used to identify photographic images concerning various military projects. The captions are parsed to produce a logical form from which nouns and verbs are extracted to form the primary keywords. User queries are also specified in natural language. A two-phase search process employing coarse-grain and f ...

9 An effective graphics user interface for rules and inference mechanisms

J. W. Lewis

December 1983 **Proceedings of the SIGCHI conference on Human Factors in Computing Systems**

Full text available:  [pdf\(424.46 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

As the technology of rule-based inference mechanisms matures, knowledge acquisition—the creation, structuring, and verification of rules—becomes increasingly important. The accuracy and completeness of the rules in the knowledge base determine expert system performance, and the cost of acquiring that knowledge base dominates all other hardware and software costs in practical systems. To reduce knowledge acquisition time and error rate, a new interactive graphics inter ...

Keywords: Expert systems, User interfaces AND/OR trees

10 Retargetable tools for embedded software: A retargetable micro-architecture simulator

Wai Sum Mong, Jianwen Zhu

June 2003 **Proceedings of the 40th conference on Design automation**

Full text available:  [pdf\(226.81 KB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The capability of performing architectural exploration has become essential for embedded microprocessor design in System-On-Chip. While many retargetable instruction set (ISA) simulators have been reported, the more relevant micro-architecture simulators, which are capable of modeling the detailed machine features such as cache organization, branch prediction and out-of-order scheduler, have not be equipped with retargetability. In this paper, we propose a new methodology that can generate compl ...

11 Algorithm 803: a simpler macro processor

William A. Ward

June 2000 **ACM Transactions on Mathematical Software (TOMS)**, Volume 26 Issue 2

Full text available:  [pdf\(73.41 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Macro processors have been in the computing tool chest since the late 1950's. Their use, though perhaps not what it was in the heyday of assembly language programming, is still widespread. In the past, producing a full-featured macro processor has required significant effort, similar to that required to implement the front-end to a compiler augmented by appropriate text substitution capabilities. The tool described here adopts a different approach. The text containing macro definitions and ...

Keywords: awk, portable, simple

12 Automatic generation of Ada for MIS applications

Thomas W. Bragg

July 1990 **Proceedings of the seventh Washington Ada symposium on Ada**

Full text available:  pdf(631.93 KB)

Additional Information: [full citation](#), [index terms](#)



13 Constructing application-specific heterogeneous embedded architectures from custom HW/SW applications

Steven Vercauteren, Bill Lin, Hugo De Man

June 1996 **Proceedings of the 33rd annual conference on Design automation**

Full text available:  pdf(97.89 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



14 HW/SW co-design: An SoC architecture and its design methodology using unifunctional heterogeneous processor array

Yoichi Yuyama, Masao Aramoto, Kazutoshi Kobayashi, Hidetoshi Onodera

January 2004 **Proceedings of the 2004 conference on Asia South Pacific design automation: electronic design and solution fair 2004**

Full text available:  pdf(173.05 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)



We propose a heterogeneous processor architecture and its design methodology to shorten the design period of the SoC. It enables fast implementation of a system LSI including an embedded CPU and peripheral functional blocks. Each functional block of the system under design is implemented to a customized processor, instead of a peripheral hardwired logic. We customize processors by deleting unnecessary functionalities, without adding new features. This enables rapid and bug-free design. Although ...

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Software Engineering, 1993. Proceedings., 15th International Conference on , 17-21 May 1993

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